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MARCHANT®

COGITO®

1016PR

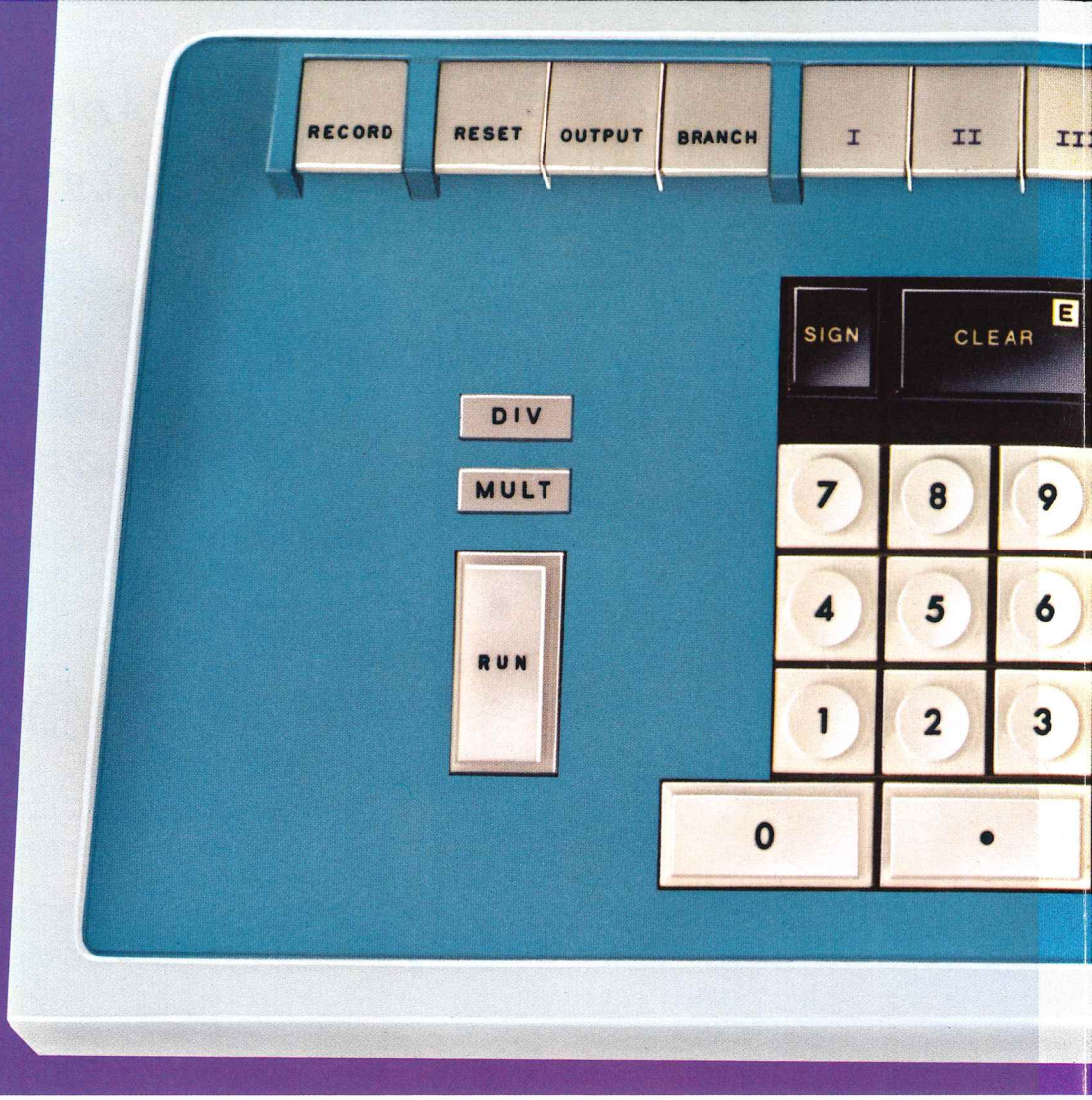
ELECTRONIC PRINTING CALCULATOR

The Cogito 1016PR electronic calculator combines programming, high-speed calculations, and printed output in a compact 35 pound desk top unit. Made in the United States and designed with the operator in mind, it is logical and simple to use. It can be operated manually as a standard printing calculator or automatically under program control as an advanced desk top computer. Versatile branching capabilities give the 1016PR the ability to make decisions and "think" for itself.

When combined with IOTA-I™, an optional Input-Output Tape Accessory, programs can be recorded on magnetic tape for later use.

It thinks for itself...and for you

COGITO 1016PR KEYBOARD



DECIMAL KEY The Cogito 1016PR eliminates guesswork at decimals. If the decimal is entered correctly, the factors and answers in all problems will print decimally correct. Decimal wheel settings are at 2, 4, 6, 8, 10, and 12 places. Round off is optional at the flick of a switch.

SIGN KEY The Cogito 1016PR is algebraically correct in all mathematical operations. The SIGN Key permits the entry of negative numbers. All answers and factors print with the correct sign.

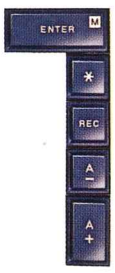
ADDING REGISTER AND KEYBOARD ENTRY The basic adding machine operations of add, subtract, subtotal, total, and print are lined up in a logical order. Numeric entry capacity is 14 digits. Calculating capacity is 16 digits. The numeric keyboard assures input accuracy in four ways:

1. A built-in electronic "click" indicates that all entries are accepted.
2. The column indicator prevents errors of omissions by showing the number of keyboard entries.
3. Keyboard interlocks prevent entry during calculations or printing.
4. All entries are identified by an easily recognized symbol corresponding to the operating key touched.

MULTIPLICATION REGISTER Only two keys for multiplying. Enter the multiplicand, touch the X Key. Enter the multiplier, touch =. The answer prints instantly. Chain multiplications such as 2 x 5 x 6 = 60 are calculated automatically, just as they are written, without printing intermediate results.

DIVISION REGISTER The Cogito 1016PR uses only two keys for all division problems, a division key, and an equals key. The same equals key is used in multiplication. Enter the dividend, touch the ÷ key. Enter the divisor, touch the = key. Answers are printed instantly with the correct decimal.

SQUARE ROOT The Cogito 1016PR computes and prints the square root with the touch of a single key. Simply enter the radicand, and touch the square root key. It's quick and easy to figure roots up to 12 decimal places.



WORKING ACCUMULATOR REGISTERS The Cogito 1016PR has six Working Accumulator Registers selected by Roman numeral keys I to VI. Depressing the appropriate selection key activates a register, a light glows under the key, and the register remains selected until another register is chosen. Color-coded controls (A+, A—, Recall and Enter) provide direct access to the selected register for adding, subtracting, or storing products and quotients positively and negatively. Each Working Accumulator Register is independent of other Cogito 1016PR functions. Figures may be recalled and transferred to other registers as

CLEAR ALL needed. The CLEAR ALL Key is used to clear the six Working Accumulator Registers simultaneously, while the * Key clears and prints only a selected Working Accumulator Register. These Working Accumulator Registers give the 1016PR the computational ability of six more adding registers.

8 9 5 6 2 3 **KEYBOARD REGISTER** The Cogito Keyboard Register links the other registers together, eliminating the need to re-enter intermediate factors or answers. The last figure printed is automatically back in the Keyboard Register as though you put it there. Figures are easily transferred from one register to another.

RECORD STOP CODE ROUND CODE RESET RUN **PROGRAMMING** The Cogito 1016PR can record 100 instructions such as add, subtract, multiply, and divide in a program memory. It's easy to program. Simply touch the RECORD Key and do your problem, touching the STOP CODE whenever a variable is to be entered, the PRINT Key when a figure is to be printed, and the ROUND CODE Key when a product is to be rounded. The CLEAR Key programs a line space so factors and answers will be spaced in proper format. Constant factors may be recorded as an integral part of the program. The RESET Key ends the recording of the program. The RUN Key starts a program, and the 1016PR stops only for the entry of variables. The problem is then calculated automatically and the answers are rounded when needed and printed on the tape. The Cogito 1016PR is simple to program, and there is no need to learn a special machine language. Errors are reduced as operator decisions are kept to a minimum. Complex or repetitive problems are solved with the time-saving speed of electronics. When the Cogito 1016PR is turned off, the program is retained in the core memory and is instantly ready for use when power is restored.

OUTPUT **OUTPUT KEY** When the OUTPUT Key is depressed, the 1016PR will print on the tape easily recognized symbols representing the program steps. They will be printed in the same order in which they were recorded in the program memory. The detection of program errors is simplified, and the program errors can be corrected without recording the entire program again. The OUTPUT Key is also used with the IOTA™ to record the program on a magnetic tape.

BRANCH **BRANCH KEY** Unconditional and Conditional branching can be performed giving the 1016PR the calculating power of an electronic computer. The 1016PR seems to think for itself as it branches or makes decisions on positives, negatives, or zeros. The unconditional branch ability permits the use of several programs at the same time.

SELECT PRINT **SELECT PRINT KEY** The Cogito 1016PR can print all numbers and operations during program debugging. If program errors are made, they are easily detected using test problems. Once the program is correct, the select print key is depressed and only needed factors and answers are printed.

IOTA-1

the IOTA (Input-Output Tape Accessory) is an optional plug-in accessory to the Marchant 1016PR. It is used to record programs on magnetic tape for future use. One IOTA can be shared by several Marchant 1016PR units.

A tape cartridge is inserted in the IOTA. When the OUTPUT Key is depressed, the program in the 1016PR is recorded on the magnetic tape in five seconds. A library of frequently used programs can be developed to avoid the need to re-enter programs manually.

To transfer a program from a magnetic tape, a cartridge is placed in the IOTA and the RECORD Key depressed. The extensive branching ability of the Cogito 1016PR enables you to "output" or "record" programs starting at any program step. Programs and subroutines from different tape cartridges may be loaded individually and stored in the program memory at the same time. Programs of greater than 100 steps can be run by using two or more cartridges.

CIRCUITRY: Solid State Integrated Circuits **SIZE:** 19″ long, 15″ wide, 9″ high **WEIGHT:** 35 pounds

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CA 0174 PRINTED IN U.S.A.